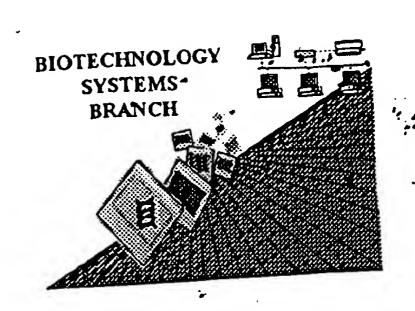
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

form:	xc 659 983C	RECEIVED
Application Serial Number:	07 QF	NOV 1 3 2001
Source:	01/10/2001	TECH CENTER 1600/2900
Date Processed by STIC:	09/10/2001	e see and an

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker-

## RECEIVED NOV 1 3 2001

Raw Sequence Listing Error Summary

TECH CENTER 1600/2900

	A a a a a a a a a a a a a a a a a a a a		
ERROR DETECTED	SUCCESTED CORRECTION SERIAL NUMBER: 09659 9830		
ATTN: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWA		
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."		
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.		
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.		
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.		
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.		
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.		
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped		
,	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.		
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number		
	000		
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.		
10Invalid <213> Response	.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or tific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or tificial Sequence		
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)		
12PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.		
13 . Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.		

AMC/MH - Biotechnology Systems Branch - 08/21/2001

Does Not Comply

DATE: 09/18/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/659,983C TIME: 13:02:52

Input Set : A:\ES.txt

Output Set: N:\CRF3\09182001\1659983C.raw

```
5 <110> APPLICANT: Meloen, Robert Hans
              Oonk, Hendrica Berendina
     11 <120> TITLE OF INVENTION: An Improved Peptide, Immunogenic Composition and Vaccine or
Medical
     12
              Preparation, a
     13
              Method to Immunise Animals Against the Hormone LHRH, and Analogs of the LHRH
     14
              Tandem
     15
              Repeat Peptide and their Use as Vaccine
     19 <130> FILE REFERENCE: 2183-4518US
     23 <140> CURRENT APPLICATION NUMBER: 09/659,983C
     25 <141> CURRENT FILING DATE: 2000-09-12
     29 <150> PRIOR APPLICATION NUMBER: US 09/274,048
                                                                    Corrected Diskette Needed
     31 <151> PRIOR FILING DATE: 1999-03-22
                                                                       See rage 6 of 8
     35 <150> PRIOR APPLICATION NUMBER: US 08/981,557
     37 <151> PRIOR FILING DATE: 1995-06-07
     41 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00223
     43 <151> PRIOR FILING DATE: 1996-06-06
     47 <150> PRIOR APPLICATION NUMBER: US 08/447,298
     49 <151> PRIOR FILING DATE: 1995-06-07
     53 <150> PRIOR APPLICATION NUMBER: US 08/476,013
     55 <151> PRIOR FILING DATE: 1995-06-07
     59 <160> NUMBER OF SEQ ID NOS: 13
     63 <170> SOFTWARE: PatentIn version 3.0
     67 <210> SEQ ID NO: 1
     69 <211> LENGTH: 10
     71 <212> TYPE: PRT
     73 <213> ORGANISM: Sus scrofa
     77 <220> FEATURE:
     79 <221> NAME/KEY: PEPTIDE
     81 <222> LOCATION: (1)..(1)
     83 <223> OTHER INFORMATION: X=pyroglutamic acid
     87 <220> FEATURE:
     89 <221> NAME/KEY: PEPTIDE
     91 <222> LOCATION: (10)..(10)
     93 <223> OTHER INFORMATION: X=Gly-NH2
     97 <400> SEQUENCE: 1
W--> 99 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
     100 1
     102 <210> SEQ ID NO: 2
     104 <211> LENGTH: 10
     106 <212> TYPE: PRT
     108 <213> ORGANISM: Homo sapiens
     112 <220> FEATURE:
     114 <221> NAME/KEY: PEPTIDE
     116 <222> LOCATION: (1)..(1)
     118 <223> OTHER INFORMATION: X=pyroglutamic acid
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124 <221> NAME/KEY: PEPTIDE

122 <220> FEATURE:

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RAW SEQUENCE LISTING
                     PATENT APPLICATION: US/09/659,983C
                                                               TIME: 13:02:52
                     Input Set : A:\ES.txt
                     Output Set: N:\CRF3\09182001\1659983C.raw
     126 <222> LOCATION: (10)..(10)
     128 <223> OTHER INFORMATION: X=Gly-NH2
     132 <400> SEQUENCE: 2
W--> 134 Xaa His Trp Ser His Gly Trp Tyr Pro Xaa
                                              10
     135 1
     137 <210> SEQ ID NO: 3
     139 <211> LENGTH: 20
     141 <212> TYPE: PRT
C--> 143 <213> ORGANISM: artificial
     147 <220> FEATURE:
     149 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response agains
forms
     150
               GnRH/ LHRH
     152 <220> FEATURE:
     154 <221> NAME/KEY: PEPTIDE
     156 <222> LOCATION: (1)..(1)
     158 <223> OTHER INFORMATION: X=pyroglutamic acid or Gln with attached tail of one or more
addi
     159
               tional amino acid
     163 <220> FEATURE:
     165 <221> NAME/KEY: PEPTIDE
     167 <222> LOCATION: (3)..(3)
     169 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
     173 <220> FEATURE:
     175 <221> NAME/KEY: SITE
     177 <222> LOCATION: (10)..(11)
     179 <223> OTHER INFORMATION: there is either a direct bond or a spacer group between Gly
at po
               sition 10 and Gln at position 11
     180
     184 <220> FEATURE:
     186 <221> NAME/KEY: PEPTIDE
     188 <222> LOCATION: (13)..(13)
     190 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
     194 <220> FEATURE:
     196 <221> NAME/KEY: PEPTIDE
     198 <222> LOCATION: (20)..(20)
     200 <223> OTHER INFORMATION: X=Gly-NH2 or Gly with attached tail of one or more amino
acids
     204 <220> FEATURE:
     206 <221> NAME/KEY: VARIANT
     208 <222> LOCATION: (10)..(19)
     210 <223> OTHER INFORMATION: variable repeat sequence <>10-19
     214 <400> SEQUENCE: 3
W--> 216 Xaa His Xaa Ser Tyr Gly Leu Arg Pro Gly Gln His Xaa Ser Tyr Gly
     217 1
W--> 219 Leu Arg Pro Xaa
     220
     222 <210> SEQ ID NO: 4
     224 <211> LENGTH: 21
     226 <212> TYPE: PRT
C--> 228 <213> ORGANISM: artificial
     232 <220> FEATURE:
     234 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
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forms

TIME: 13:02:52

```
Input Set : A:\ES.txt
                     Output Set: N:\CRF3\09182001\I659983C.raw
               GnRH/ LHRH
     235
     237 <220> FEATURE:
     239 <221> NAME/KEY: PEPTIDE
     241 <222> LOCATION: (1)..(1)
     243 <223> OTHER INFORMATION: X=pyroglutamic acid
     247 <220> FEATURE:
     249 <221> NAME/KEY: PEPTIDE
     251 <222> LOCATION: (6)..(6)
     253 <223> OTHER INFORMATION: X=D-Lys
     257 <220> FEATURE:
     259 <221> NAME/KEY: PEPTIDE
     261 <222> LOCATION: (11)..(11)
     263 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
     267 <220> FEATURE:
     269 <221> NAME/KEY: PEPTIDE
     271 <222> LOCATION: (16)..(16)
     273 <223> OTHER INFORMATION: X=D-Lys
     277 <220> FEATURE:
     279 <221> NAME/KEY: PEPTIDE
     281 <222> LOCATION: (21)..(21)
     283 <223>/ OTHER INFORMATION: X=Cys-NH2
     287 <400 SEQUENCE: 4
W--> 289 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Gly Xaa His Thr Ser Tyr Xaa
     290 1
W--> 292 Leu Arg Pro Gly Xaa
     293
     295 <210> SEQ ID NO: 5
     297 <211> LENGTH: 21
     299 <212> TYPE: PRT
C--> 301 <213> ORGANISM: artificial
     305 < 2/20 > FEATURE:
        ₹223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
               GNRH/ LHRH
     310 <220> FEATURE:
     312 <221> NAME/KEY: PEPTIDE
     314 <222> LOCATION: (1)..(1)
     316 <223> OTHER INFORMATION: X=pyroglutamic acid
     320 <220> FEATURE:
     322 <221> NAME/KEY: PEPTIDE
     324 <222> LOCATION: (4)..(4)
     326 <223> OTHER INFORMATION: X=amino acid substitution
     330 <220> FEATURE:
     332 <221> NAME/KEY: PEPTIDE
     334 < 222 > LOCATION: (6)..(6)
     336 <223> OTHER INFORMATION: X=D-Lys
     340 <220> FEATURE:
     342 <221> NAME/KEY: PEPTIDE
     344 <222> LOCATION: (11)..(11)
     346 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983C

```
PATENT APPLICATION: US/09/659,983C
                                                                TIME: 13:02:52
                     Input Set : A:\ES.txt
                     Output Set: N:\CRF3\09182001\1659983C.raw
     350 <220> FEATURE:
     352 <221> NAME/KEY: PEPTIDE
     354 <222> LOCATION: (14)..(14)
     356 <223> OTHER INFORMATION: X=amino acid substitution
     360 <220> FEATURE:
     362 <221> NAME/KEY: PEPTIDE
     364 <222> LOCATION: (16)..(16)
     366 <223> OTHER INFORMATION: X=D-Lys
     370 <220> FEATURE:
     372 <221> NAME/KEY: PEPTIDE
     374 <222> LOCATION: (21)..(21)
     376 <223>/ OTHER INFORMATION: X=Cys-NH2
     380 <409 SEQUENCE: 5
W--> 382 Xaa His Thr Xaa Tyr Xaa Leu Ala Pro Gly Xaa His Thr Xaa Tyr Xaa
     383 1
W--> 385 Leu Arg Pro Gly Xaa
     386
     388 <210> SEQ ID NO: 6
     390 <211> LENGTH: 21
     392 <212> TYPE: PRT
C--> 394 <213> ORGANISM: artificial
     398 <220> FEATURE:
     400 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
     401
               GnRH/ LHRH
     403 <220> FEATURE:
     405 <221> NAME/KEY: PEPTIDE
     407 <222> LOCATION: (1)..(1)
     409 <223> OTHER INFORMATION: X=pyroglutamic acid
     413 <220> FEATURE:
     415 <221> NAME/KEY: PEPTIDE
     417 <222> LOCATION: (6)..(6)
     419 <223> OTHER INFORMATION: X=D-Lys
     423 <220> FEATURE:
     425 <221> NAME/KEY: PEPTIDE
     427 <222> LOCATION: (8)..(8)
     429 <223> OTHER INFORMATION: X=amino acid substitution
     433 <220> FEATURE:
     435 <221> NAME/KEY: PEPTIDE
     437 <222> LOCATION: (11)..(11)
     439 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
     443 <220> FEATURE:
     445 <221> NAME/KEY: PEPTIDE
     447 <222> LOCATION: (16)..(16)
     449 <223> OTHER INFORMATION: X=D-Lys
     453 <220> FEATURE:
     455 <221> NAME/KEY: PEPTIDE
     457 <222> LOCATION: (18)..(18)
     459 <223> OTHER INFORMATION: X=amino acid substution
     463 <220> FEATURE:
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RAW SEQUENCE LISTING

```
TIME: 13:02:52
                       PATENT APPLICATION: US/09/659,983C
                       Input Set : A:\ES.txt
                       Output Set: N:\CRF3\09182001\1659983C.raw
     465 <221> NAME/KEY: PEPTIDE
     467 <222> LOCATION: (21)..(21)
     469 <223> OTHER INFORMATION: X=Cys-NH2
     473 <400 SEQUENCE: 6
W--> 475 Xaa His Thr Ser Tyr Xaa Leu Xaa Pro Gly Xaa His Thr Ser Tyr Xaa
     476 1
W--> 478 Leu Xaa Pro Gly Xaa
                                           FII: "Artificial Sequence" or the
preferred terminology

     479
     481 <210> SEQ ID NO: 7
     483 <211> LENGTH: 21
     485 <212> TYPE: PRT
C--> 487 <213> ORGANISM: (artificial
     491 <220> FEATURE:
     493 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
     494
                GnRH/ LHRH
                                                              Errored: E Bequence Location

le 15 not described in field

121 at an interiorn

peptide residue.

put
     496 <220> FEATURE:
     498 <221> NAME/KEY: PEPTIDE
     500 <222> LOCATION: (1)..(1)
     502 <223> OTHER INFORMATION: X=pyroglutamic acid
     506 <220> FEATURE:
     508 <221> NAME/KEY: PEPTIDE
     510 <222> LOCATION: (6)..(6)
     512 <223> OTHER INFORMATION: X=D-Lys
     516 <220> FEATURE:
     518 <221> NAME/KEY: PEPTIDE
     520 <222> LOCATION: (10)..(10)
     522 <223> OTHER INFORMATION: X=amino acid substutition
     526 <220> FEATURE:
     528 <221> NAME/KEY: PEPTIDE
     530 <222> LOCATION: (11)..(11)
     532 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
     536 <220> FEATURE:
     538 <221> NAME/KEY: PEPTIDE
     540 <222> LOCATION: (20)..(20)
     542 <223> OTHER INFORMATION: X=amino acid substitution
     546 <220> FEATURE:
     548 <221> NAME/KEY: PEPTIDE
     550 <222> LOCATION: (21)..(21)
     552 <223> OTHER INFORMATION: X=Cys-NH2
     556 <400 > SEQUENCE: 7
W--> 558 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Xaa Xaa His Thr Ser Tyr (Xaa
W--> 561 Leu Arg Pro Xãa Xaa
     562
                       20
                                                                                    May
     564 <210> SEQ ID NO: 8
                                                                    The type of errors shown exist throughout
                                                                    the Sequence Listing. Please check subsequent
     566 <211> LENGTH: 42
     568 <212> TYPE: PRT
                                                                    sequences for similar errors.
C--> 570 <213> ORGANISM: artificial
     574 <220> FEATURE:
                                                                    The type of errors shown exist throughout
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RAW SEQUENCE LISTING

the Sequence Listing. Please check subsequent

Selection of Similar errors.

## VERIFICATION SUMMARY PATENT APPLICATION: US/09/659,983C DATE: 09/18/2001 TIME: 13:02:53

Input Set : A:\ES.txt

Output Set: N:\CRF3\09182001\1659983C.raw

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L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:228 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:394 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:487 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:570 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:686 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:759 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:832 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:925 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1018 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:1089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
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